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1. The first part of the paper is devoted to the study of the

2. properties of the solutions of the system of equations

3. (1) $\frac{dx}{dt} = A(x)y, \quad y(0) = y_0$

4. where $A(x)$ is a matrix-valued function defined on the interval

5. $[0, \infty)$ and y_0 is a vector in \mathbb{R}^n .

6. The second part of the paper is devoted to the study of the

7. asymptotic behavior of the solutions of the system of equations

8. (2) $\frac{dx}{dt} = A(x)y, \quad y(0) = y_0$

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22. asymptotic behavior of the solutions of the system of equations

23. (5) $\frac{dx}{dt} = A(x)y, \quad y(0) = y_0$

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